

Amendments To The Claims:

The text of all pending claims (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with strikethrough. When strikethrough cannot easily be perceived, or when five or fewer characters are deleted, [[double brackets]] are used to show the deletion. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Listing of Claims:

1. (previously presented) A wireless communication system for performing measurements and positioning of objects in a given structure, the wireless communication system comprising:

at least one field beacon positioned at at least one target point;

a central signal collector comprising at least three base beacons assembled in a polygon design of known dimensions, wherein each base beacon communicates with each of the at least one field beacon;

an application software arranged to perform calculations based on measurements of communication signal characteristics between the at least one field beacon and the base beacons of the central collector and further arranged to enable the identification of points' exact position within the given structure, wherein at least one field beacon is positioned on every identified point and the at least three base beacons are set at positions within the given structure; and

a module that creates a three-dimensional visual model of the given structure based on the identification and calculations of points' exact position within the given structure.

2 (previously presented). The wireless communication system of claim 1, wherein the at least one target point defines a target object and the performed calculations are determined according to the geometrical shape of the target object.

3. (previously presented) The wireless communication system of claim 2, wherein the geometrical shape is a surface, including at least three field beacons or touched by one field beacon in at least three points.
4. (previously presented) The wireless communication system of claim 2, wherein the geometrical shape is an opening, including at least three field beacons or touched by one field beacon in at least three points.
5. (previously presented) The wireless communication system of claim 1, wherein the central signal collector's initial position is initialized by a GPS device.
6. (previously presented) The wireless communication system of claim 1, wherein the central signal collector's initial position is initialized by at least one field beacon applied to the three reference points with known coordinates.
7. (previously presented) The wireless communication system of claim 1, wherein the central signal collector position is initialized in relation to at least three non-aligned field beacons.
8. (previously presented) A wireless communication system for performing measurements and positioning of objects in a given structure, the wireless communication system comprising:
 - at least one field beacon positioned at a target object;
 - a central signal collector, comprising at least three base beacons assembled in a polygon design of known dimensions, wherein each base beacon communicates with each of the field beacons; and
 - an application software arranged to perform calculations based on measurements of communication signal characteristics between the at least one field beacon and the base beacons of the central collector,

wherein the field beacons are positioned at different spaces within the given structure;
and wherein the central signal collector is moved sequentially from one space to another
for each measurement session.

9. (previously presented) The wireless communication system of claim 1, further
comprising an additional central signal collector for increasing measurement accuracy
and for expanding the range of communication reception.

10. (previously presented) The wireless communication system of claim 1, wherein the
field beacons communicate with each other, enabling the creation of *ad hoc* signal
collectors for improving the accuracy of the performed calculations and for extending the
range of communication reception.

11. (previously presented) The wireless communication system of claim 10, wherein at
least three field beacons function as a relay station enabling communication between
distanced beacons which are not in the communication range of the central collector.

12. (previously presented) The wireless communication system of claim 1, wherein the at
least one field beacon and the base beacons communicate through RF signals, wherein
the distance measurements are based on RF signal properties.

13. (previously presented) The wireless communication system of claim 1, wherein the at
least one field beacon and the base beacons communicate through ultrasonic signals,
wherein the distance measurements are based on the signals' time properties.

14. (previously presented) The wireless communication system of claim 1, wherein the at
least one field beacon and the base beacons communicate through laser signals, wherein
the at least one field beacon are bar-coded and the central signal device is a laser scanner.

15-16. (canceled)

17. (previously presented) The wireless communication system of claim 1, wherein the performed calculations are used for surveying surroundings before construction, wherein the field beacons are positioned at strategic locations, enabling the determination of the topographic relations between the beacons.

18. (previously presented) The wireless communication system of claim 1, wherein the measurement calculations are used for surveying surroundings under construction, wherein the at least one field beacon are positioned at strategic locations, enabling the comparison between on-location positioning and construction designs.

19. (previously presented) The wireless communication system of claim 1, wherein the given structure is a building and wherein at least one of the field beacons is embedded into the building for future maintenance or monitoring use.

20. (previously presented) The wireless communication system of claim 1, wherein the central collector's base beacons are set at permanent positions within the given structure.

21. (previously presented) The wireless communication system of claim 1, wherein the movement of the identified objects is incorporated within the three-dimensional visual model of the building.

22. (previously presented) The wireless communication system of claim 2, wherein the central collector's base beacons are set at permanent positions within the given structure, and wherein the target objects are inventory items and the performed calculations support warehouse inventory management.

23. (previously presented) A wireless communication system for performing measurements and positioning of objects in a given structure, the wireless communication system comprising:

at least one field beacon positioned at a target object;
a three field beacon triangle structure connected to a pointing telescopic rod of a known length;
a central signal collector, comprising at least three base beacons assembled in a polygon design of known dimensions, wherein each base beacon communicates with each of the field beacons; and
an application software arranged to perform calculations based on measurements of communication signal characteristics between the at least one field beacon and the base beacons of the central collector,
wherein three field beacon triangle structure enables to measure any target point.

24. (previously presented) The wireless communication system of claim 1, further comprising a three field beacon triangle structure which is connected to a laser-based distance measuring device to measure any target point.

25 -34 (canceled).